

## **Project based VB.Net/C# & ASP.Net Training (Lahore)**

*“We Assure the Total Success of Every Student/Candidate  
With Unbeatable Guarantees that Other Companies even can't touch”*

Building Windows and Web (VB.NET, ASP.Net) Applications class will teach developers and Students the VB.NET, ASP.Net, ADO.NET, XML and Visual Studio .NET skills they need to successfully build Windows, Web applications and services.

### **Training Objectives**

This intensive and **purely practical based** course has been specifically designed to address the requirements of developers and students who are new to the .NET environment with a comprehensive introduction to creating typical commercial windows and web applications within the Visual Studio.NET framework using VB.NET & ASP.Net

### **Prerequisite Skills**

Candidates should have programming experience and ideally a background of an Object Based or Object Oriented Languages e.g. C++, Java.

### **Who Should Attend**

Programmers look to learn the VB.NET language (C# option is also available) to develop commercial Windows and web applications & services and ASP.NET and client-side applications.

### **What You Will Learn To Do**

- Utilize Visual Studio .NET to develop and debug applications.
- Understand the role of the Common Language Runtime (CLR).
- Understand Object Oriented Programming in the .NET languages.
- Develop Console applications.
- Use WinForms to develop Windows applications.
- Use WebForms to develop ASP.NET server side Applications.
- Create Web and Window Services.

### **Chance to work on Real Time Projects**

It's not just a theory and explanation course, we take you through real projects which give you real experience of working on projects.

### **Hands on Exercises**

The course will contain a substantial amount of Hands-On work. Candidates will be introduced to topics during theory sessions and these will be followed by lab exercises relating.

## **Applicable Job Roles:**

Software programmer, software developer, and application developer

## **Training Methodology**

- Lectures are demos by Industry experts
- Project plan driven hands on approach
- Focus on latest tools, technologies and industry practices
- Projects, Assignments & Quizzes for student evaluation.

## **Training Outline**

- **Microsoft .NET Framework**
  - History
  - What is the .NET Framework?
  - The .NET Framework Architecture
  - Common Language Runtime,
  - .NET Framework Standard Libraries
  - Microsoft Intermediate Language (MSIL - CIL)
  - Assemblies (private, shared, native) and the Global
  - Assembly Cache (GAC)
  - The .NET Framework Languages
  - Comparison of VB.NET, C#, and J#
  - The .NET Framework Applications
  - Windows applications
  - Windows services
  - ASP.NET Web applications and services
  - Command-line programs
  - Reusable assemblies
  - SQL Server Stored Procedures, functions and user-defined types
- **Language Fundamentals**
  - Program structure and statements
  - Data types, identifiers, and operators
  - Comments, XML comments
  - Branching and iteration
  - Working with strings
  - Arrays, structures, and enumerations
  - Classes and namespaces, objects
  - Inheritance, overloading, overriding
  - Interfaces
  - Exceptions
  - Generics, partial types, anonymous methods, and iterators
  - Refactoring code by using refactoring features
  - Using **My** classes to access system and application resources (VB.NET)
- **Windows Forms Fundamentals**
  - The System.Windows.Forms namespace

- Working with the Windows Forms Designer
- Working with properties (using and creating)
- Event Handling (understanding events and delegates)
- Visual Inheritance
- **Windows Forms Controls**
  - Adding controls to a form
  - Control properties and methods
  - Handling control events
  - Form Layout (FlowLayoutPanel and TableLayoutPanel)
  - Creating menus and menu items
  - Windows user interface design guidelines
- **Error Handling**
  - User input validation and the data validation controls
  - Managing errors in an application
  - The try, catch, finally, and throw keywords
  - The .NET Framework exception handling guidelines
- **Reusable Components**
  - Custom User controls, extending existing controls
  - Creating custom events
  - Single-file and multi-file assemblies
  - Private and shared assemblies, Global assembly cache
  - Deployment considerations
- **Working with Data (with a focus on SQL Server and XML)**
  - Connecting to relational databases
  - Introduction to SQL Server
  - SqlConnection, SqlCommand, and SqlDataAdapter classes
  - Parameterized SQL Statements
  - Invoking Stored Procedures, input and output parameters
  - Working with DataSet, DataTable, DataRow objects
  - DataSet with multiple active results
  - Strongly typed datasets
  - Understanding XML data
  - Creating XML Schema
  - Query and update XML data by using XmlDocument
  - Crystal Reports/Active Reports
- **Data Binding**
  - Create databound forms using the RAD data binding features.
  - Generating Master-Detail forms using Visual Studio .NET
  - GridView control
- **Graphics and Drawing**
  - GDI+ managed code
  - Using managed graphics classes (pens, brushes, etc.) Fonts and Text
  - Working with images and bitmaps
- **File Systems**
  - Files and directories
  - Binary and text files

- Working with streams
- **Windows Services**
  - Service application programming architecture
  - Creating Windows services
- **Web Services**
  - Web services basics
  - Using Web services
  - Creating Web services
- **Tracing and Debugging**
  - Tracing, trace switches
  - Debugging techniques, stepping through the programs
- **Deployment and Configuration**
  - ClickOnce Deployment
  - Creating setup projects
  - Configuring applications to handle version upgrades and service packs
- **ASP.Net**
  - Introduction
  - ASP.NET Web Applications
  - Rendering HTML with Server Controls
  - Data Binding in ASP.NET
  - New Features in ASP.NET
  - Designer Features
  - Deployment and Configuration Tools
  - Increasing Productivity
  - Working With Controls
  - Configuration
  - Validation
  - Themes and Master Pages
  - Site Navigation
  - Display Data with GridView and DataList
  - State Management
  - Custom Controls
  - ASP.Net Ajax

### **Duration**

Minimum 2-3 months with at least 6 to 8 hours per week.

### **Project:**

Candidates have to complete two or more projects.

### **Fee**

Tortal fee = 18,000

15 % Discount on lump sum payment and on group joining.

## **Projects Detail**

- Any Database Application (Windows and Web)
- Database Manipulation Tools
- Code Generation Tools
- Database Independent data Synchronization Tools
- Distributed Application Development
- SMS Server (SMS based auto responder or booking system or doctor's appointment via SMS)
- Application Framework Development for Rapid development
- Application Security Management
- Application Piracy Control
- Application Online Update Module
- USB Application Dongle Security
- Web & Windows Data Extraction Tools or Web Crawler
- Complete Image Explorer
- Complete Online Document Management System
- Event Planner
- Multi Level Business Application
- Serial Port Communication

Note: Project Will Start after 2<sup>nd</sup> Class of Course

## **Contact**

If you have any questions about this training program, please do contact us at +92 300 2748000 or email [info@visionon-tech.com](mailto:info@visionon-tech.com), [visionontech@gmail.com](mailto:visionontech@gmail.com)

## **Advantages Of Doing Live Project Training With Software Company**

For all those in the final year of BCS, MCS or any such other discipline wondering to locate a software company that can offer them a live project. The one Software Company that can offer all such individuals a lifetime opportunity is VisionOn Technologies.

Working with one of the fastest growing software and outsourcing company in Pakistan in itself is an experience that not all can get a chance to undertake. Helping all such fresh students work on Live Projects in industries this simply is like making a very strong foundation for the future. Helping students get exposure right at their budding stages, undertaking such Live Projects in companies is like strengthening the hold of the roots and giving all a new boost of confidence when doing job is concerned.

Helping students get live experience of working in an Industry such live trainings will aid students in coping with the requirement that the new and improved technology in the coming future may put forth. Helping students go through the complete cycle of software development this will help them in designing synopsis that will be of immense help whenever they are in need to make presentations in the companies they will work in the future.

Training in the industry by the industrial professional while still in the educational years of life was not something students could undertake few years back. But the increasing competition has lead all get aware of all such trainings and projects much before than usual, so, in order to secure a better future undertake one such live project training, which simply might help you crack the toughest of interviews from the experience and learning skills you may acquire while getting trained here.

Preparing IT professionals to work more prepared and composed in the IT environment, with VisionOn Technologies, you will get a Training Certificate that will greatly add to your CV, for experience of few months and that too in a renowned company like VisionOn Technologies may get you the one job that you always dreamt of working at when you for the very first time thought of undertaking a career as a BCS or an MCS or MS.

So, wait no more for when penning down the advantages of such live projects in a renowned software company, you sure will get tired but the list may never seem to end. Grab this opportunity, which is not something you come along every other day, but once in life.